

DATA MANAGEMENT APPLICATION PROGRAMMING INTERFACE FAILURE
RECOVERY IN A PARALLEL FILE SYSTEM

ABSTRACT

In a cluster of computing nodes having shared access
5 to one or more volumes of data storage using a parallel
file system, a method for managing the data storage
includes initiating a session of a data management
application on a session node selected from among the
nodes in the cluster. The session node receives an event
10 message in a session queue for processing by the data
management application, responsive to a request submitted
to the parallel file system by a source node among the
nodes in the cluster to perform a file operation on a
file in the data storage. Following a failure at the
15 session node, the session queue is reconstructed so that
processing of the event message by the data management
application can continue after recovery from the failure,
and the request can be fulfilled at the source node.